

## Environmental Protection Agency

## § 1043.60

VI, we will issue a certificate and notify IMO that your Approved Method has been certified.

### § 1043.55 Applying equivalent controls instead of complying with fuel requirements.

Regulation 4 of Annex VI allows Administrations to approve the use of fuels not meeting the requirements of Regulation 14 of the Annex, provided the vessel applies a method that results in equivalent emission reductions. This section describes provisions related to applying this allowance.

(a) Any person may request approval of such equivalent methods for controlling emissions on U.S.-flagged vessels by submitting an application for certification of an equivalent control method to the Designated Certification Officer. If we determine that your control method achieves emission levels equivalent to those achieved by the use of fuels meeting the requirements of Regulation 14 of Annex VI, we will issue a certificate and notify IMO that your method has been certified.

(b) The provisions of this paragraph (b) apply for vessels equipped with controls certified by the Administration of

a foreign flag vessel to achieve emission levels equivalent to those achieved by the use of fuels meeting the applicable fuel sulfur limits of Regulation 14 of Annex VI. Fuels not meeting the applicable fuel sulfur limits of Regulation 14 of Annex VI may be used on such vessels consistent with the provisions of the IAPP certificate, APPS and Annex VI.

(c) Compliance with the requirements of this section does not affect the applicability of requirements or prohibitions specified by other statutes or regulations with respect to water pollution.

### § 1043.60 Operating requirements for engines and vessels subject to this part.

This section specifies the operating requirements of this part. Note that it does not limit the operating requirements of APPS or Annex VI that are applicable to U.S.-flagged vessels outside of U.S. domestic waters.

(a) Except as specified otherwise in this part, NO<sub>x</sub> emission limits apply to all vessels subject to this part as specified in the following table:

TABLE 1 TO § 1043.60 ANNEX VI NO<sub>x</sub> EMISSION STANDARDS (G/KW-HR)

Tier	Area of applicability	Model year	Maximum in-use engine speed		
			Less than 130 RPM	130–2000 RPM <sup>a</sup>	Over 2000 RPM
Tier 1 .....	All U.S. navigable waters and EEZ .....	2004–2010 .....	17.0	45.0·n <sup>(-0.20)</sup>	9.8
Tier 2 .....	All U.S. navigable waters and EEZ .....	2011–2015 .....	14.4	44.0·n <sup>(-0.23)</sup>	7.7
Tier 2 .....	All U.S. navigable waters and EEZ, excluding ECA and ECA associated areas.	2016 and later .....	14.4	44.0·n <sup>(-0.23)</sup>	7.7
Tier 3 .....	ECA and ECA associated areas .....	2016 and later .....	3.4	9.0·n <sup>(-0.20)</sup>	2.0

<sup>a</sup>Applicable standards are calculated from n (maximum in-use engine speed, in RPM, as specified in § 1042.140). Round the standards to one decimal place.

(b) Except as specified otherwise in this part, fuel sulfur limits apply to all vessels subject to this part as specified in the following table:

TABLE 2 TO § 1043.60 ANNEX VI FUEL SULFUR LIMITS  
[wt %]

Calendar years	Sulfur limit in all U.S. navigable waters and EEZ (percent)	Sulfur limit in ECA and ECA associated areas (percent)
2010–2011 .....	4.50	1.00
2012–2015 .....	3.50	1.00
2016–2019 .....	3.50	0.10
2020 and later .....	0.50	0.10